**7th Combined Science-Term I**

**Activity Sheet 1: *Scientific Method***

Full Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7th \_\_\_\_\_\_\_

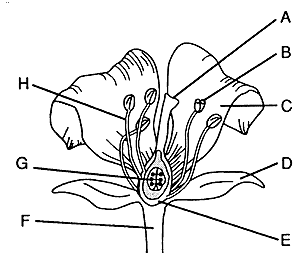
Teacher: Gerardo LÁZARO Actual Date of Delivery: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Expected Date of Delivery: 7th A (17th), 7th B (21st), 7th C (17th)**

**OBJECTIVES: Identify and describe the steps taken to generate knowledge based on an organized scientific method.**

**Follow the steps of the scientific method to generate answers for questions or situations identified to be. Analyze the importance of the Scientific Method.**

**I.   Identify the structures on the flower diagram below.**

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**II.   State the function of each of the structures you identified in number three.   Make sure your letter and name of the structure is associated with your answer.**

**III.   In 5 or more steps, discuss/describe the major events in the double fertilization in   
Angiosperm plants.   Use drawings or diagrams.**

**VI.  Correctly complete each of the following statements.**

**1. Another name for germination is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**2. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ acts as a visual attractant for insects.**

**3. The seed of a bean plant is made mostly of the nutrient \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**4. The structure which supports the anther is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**5. The structure known as the "pollen box" containing the pollen of the plant is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**6. The part of the pistil which contains the pollen tube is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This is the narrow midsection of the pistil.**

**7. The entire female reproductive organ in flowering plants is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**8. The entire male reproductive organ in flowering plants is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**9. The sperm of flowering plants is contained in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  grain.**

**10. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a sprouting seed develops into the lower stem and roots.**

**11. The transfer of pollen between the anther and the stigma in any flowering plant or plants is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**12. Most stored food in a bean seed is contained in their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**13. The sticky top of the pistil is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**14. The embryonic plant is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ before germination.**

**15. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a sprouting seed develops into the upper stem and leaves.**

**16. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ acts as a chemical attractant for insects and small birds.**

**Multiple Choice Section  
  
1.   Cone bearing plants**

1. **are known as gymnosperms**

**(2.) are known as angiosperms  
(3.) bear flowers for reproductive success**

**(4.) depend on an aqueous environment for gamete dispersion  
(5.) are found only in the Northern hemisphere**

**2.    The cotyledons of angiosperms**

**(1.) store food in the seed**

**(2.) form pollen**

**(3.) mature the pollen  
         (4.) become the fruit**

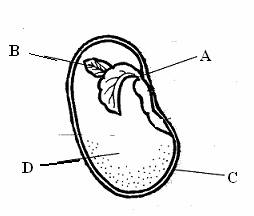
**(5.) enclose the flower bud  
  
3.     Angiosperms differ from other terrestrial plant groups in that they**

**(1.) have flowers and fruits  
         (2.) have cones**

**(3.) have needles**

**(4.) produce spores**

**(5.) have xylem and phloem**

**Base your answers to questions 6 and 7 below on the diagram below and your knowledge of biology.  
  
  
  
6.         The region labled B refers to the**

**(1.) epicotyl**

**(2.) hilium**

**(3.) radicle**

**(4.) meristem**

**(5.) endosperm  
  
7.         The region labeled D represents the**

**(1.) cotyledon**

**(2.) hilium**

**(3.) hypocotyl**

**(4.) radicle**

**(5.) seed coat**